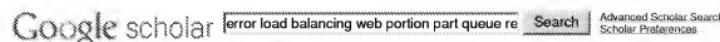


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**[PDF] File placement in a Web cache server**

V Soloviev, A Yalgin - Proc. 10-th ACM Symposium on Parallel Algorithms ..., 1998 - Citeseer  
 ... each Web page has several embedded objects that are delivered sequentially, and the access latency for a Web page is the ... For one-page files we used it can give the error of the I/O time no more than 0.3 ... We start by investigating the placement algorithms for disk load balancing. ...  
 Cited by 8 - Related articles - View as HTML - All 3 versions

**Evaluating web user perceived latency using server side measurements**

M Marashak, H Levy - Computer Communications, 2003 - Elsevier  
 ... it: (1) a mirror site, (2) wider connectivity to the Internet, (3) better Web server or, (4) load balancing. ... full Web page with an average error of 4% under normal server loads, and an average error of 10 ... of the latency, for example, whether the latency is high due to server load or due ...  
 Cited by 16 - Related articles - All 9 versions

**Method for optimizing off-peak caching of web data**

JR Thompson, V Berstis - US Patent 5,961,602, 1999 - Google Patents  
 ... URL queue 235 is a data structure that identifies the URL of the Web site as ... Moreover, although the queue 235 is shown as a dedicated portion of the memory 206, this ... Moreover, the optimization routine includes a "load balancing" function to ensure that content identified by the ...  
 Cited by 21 - Related articles - All 2 versions

**[PDF] Load balancing in distributed adaptive task partitioning.**

C Achalla, K Kaugars, E De Doncker - ..., International Conference on ..., 2003 - cscl.csusb.edu  
 ... step where a processor transfers multiple regions accounting up to a set percentage of its error and a ... We found that this model allows for adequate load balancing and improves on the previously implemented strategy for the ... 1) <http://www.cs.wmich.edu/parint>, PARINT web site. ...  
 Related articles - View as HTML - All 4 versions

**[PDF] Network processor load balancing for high-speed links**

G Dittmann, A Herkerdt - ..., of the 2002 International Symposium on ..., 2002 - Citeseer  
 ... and thanks to the one-chip implementation with centralized scheduling, the balancing unit knows ... When confronting the load balancer with the traffic suite while only flow time-outs are ... Thus, standard error analysis as used for repeated measurements in [9] is not applicable here. ...  
 Cited by 50 - Related articles - View as HTML - All 3 versions

**Load balancing between multiple web servers**

M Vanga - US Patent App. 09/835,833, 2001 - Google Patents  
 ... [0027] In this manner, the load balancing functionality can be performed before the request is launched across the public network. ... The web site 210 may be hosted on the site owner's own web server, or hosted on a web server owned by a third party. ...  
 All 4 versions

**[PDF] Kernel mechanisms for service differentiation in overloaded web servers**

T Voigt, R Tewari, D Freimuth, A Mehra - Proceedings of the USENIX ..., 2001 - Citeseer  
 ... as well as outside the server in layer 4 or 7 switches that perform load balancing and content ... As the load generated by the competing clients increases, the preferred client's throughput falls ... The device driver copies the received packet into an mbuf, performs error checking, and ...  
 Cited by 120 - Related articles - View as HTML - All 7 versions

**Data partitioning and load balancing in parallel disk systems**

P Scheuermann, G Weikum, P Zabback - the VLDB Journal, 1993 - Springer  
 ... that seems more appropriate for systems with many clients (eg. Web servers or ... Although the problems of data partitioning and load balancing are orthogonal issues, they are ... parallel disk systems that performs automatic data partitioning, data allocation, and load balancing ...  
 Cited by 177 - Related articles - All 23 versions

**[PDF] TCP servers: Offloading TCP processing in internet servers. design, ...**

M Rangarajan, A Bohra, K Banerjee, EV ... - ..., Rutgers University, Mar, 2002 - Citeseer

... This is followed by the TCP send, which makes another copy to allow retransmission of the data in case of an error. ... An adaptive scheme to **balance the load** or resource allocation between the application and TCP server will help server performance. ...  
Cited by 44 - Related articles - View as HTML - All 12 versions

### Managing energy and server resources in hosting centers

JS Chase, DC Anderson, PN Thakar, AM ... - Proceedings of the ... , 2001 - portal.acm.org  
... with measurements from a single CPU-bound service running a synthetic Web workload with ...  
The center must **balance** the revenue increase from overbooking against the risk ... Examples  
include load changes beyond some tolerance threshold or changes to available resources ...  
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**Request queue management**

A Aziz, T Marhsan, M Patterson, M ... - US Patent App. 10/301,497, 2002 - Google Patents  
 ... 09/630,440, filed on Aug. 2, 2000, which is a continuation-in-part of application No. ... Each tier of a multi-tier VSF (eg, Web server tier, application server tier, database server tier, etc) can be dynamically sized based on the load on the servers in that particular tier. ...

Related articles - All 4 versions

**A novel web application frame developed by MVC**

L GuangChun, WY Lu, X Hanhong - ACM SIGSOFT Software ... 2003 - portal.acm.org  
 ... action logics mainly include the interactive mode, data sources, and error handling, etc. ... Center into multiple servers and implement the distributing process and load balance only adding ... 4. Relative problems Examining the present Web application design patterns (such as CGI ...

Cited by 9 - Related articles - All 2 versions

**Engineering highly accessed Web sites for performance**

J Challenger, A Iyengar, P Dantzig, D Dias, N ... - Lecture Notes in ..., 2001 - Springer  
 ... for the page is already pending to the host because of the difficulty of error recovery ... objects also can improve performance, caching of encrypted objects can reduce server load more significantly ... to be effective is an art requiring the authors to strike a balance between information ...

Cited by 19 - Related articles - All 7 versions

**[PDF] An efficient adaptive load balancing service for CORBA**

O Othman, CO Ryan, DC Schmidt - IEEE Distributed Systems Online, 2001 - Citeseer  
 ... 5 switching [1] has become a popular technique to determine which Web server should ... were increased to exaggerate load imbalance and to make the load balancing more obvious ... 4 The initial load fluctuations result from the load balancer periodically rebinding clients to less ...  
 Cited by 33 - Related articles - View as HTML - All 12 versions

**... ANALYSIS OF FILE TRANSMISSION DURATION DISTRIBUTION OVER THE WEB**

KEA Negm ... - International Conference on Intelligent Systems and ..., 2003 - actapress.com  
 ... Bytes: the total number of bytes delivered to the client (including error ones if ... Each outside server have three mirrors in the inside net, two them have a load balancing server. ... The fact that the server load is a major cause for the heavy tailed behavior of the TDD is important. ...

All 3 versions

**Modeling information agents: Advertisements, organizational roles, and dynamic ...**

K Decker, K Sycara, M Williamson - Proceedings of the AAAI-96 Workshop ..., 1996 - aaai.org  
 ... extra enable- ment conditions: first, that the initial advertisement actually completed without error, and secondly ... for this limited set of queries, allowing tight con- trol over load balancing, greater service ... new class of service we need for our application is graphical web page con ...  
 Cited by 36 - Related articles - All 19 versions

**Performance and irregular behavior of adaptive task partitioning**

E De Doncker, R Zanniy, K Kaugars, I ... - Lecture Notes in Computer ..., 2001 - Springer  
 ... Log Error Ratio Fig. 2. Estimated error ratio log curve Fig. ... 2. Else de Doncker, Ajay Gupta, Alan Genz, and Rodger Zanniy. [http://www.cs.wmich.edu/~parint/ParInt\\_Web\\_Site/](http://www.cs.wmich.edu/~parint/ParInt_Web_Site/) ... 4. V. Kumar, AY Grama, and NR Vempaty. Scalable load balancing techniques for parallel computers. ...  
 Cited by 3 - Related articles - All 6 versions

**System for responding to a resource request**

A Jindal, SB Lim, S Radu, WL Chang, 2000 - Google Patents  
 ... is thus coupled to DNS 100 via network 122, and includes instructions (eg, a web browser) for ... with a client's parameters, a default server may be identified, an error message may ... Where multiple preferred servers are identified, they may reflect different load- balancing policies. ...  
 Cited by 32 - Related articles - All 6 versions

**[PDF] Load Characterization and the Implementation of Service Levels in the ...**

SD Gribble, A Fox - Class report, UC Berkeley, 1997 - Citeseer

... monitor can page or email the system operator if a serious error occurs, for ... ties include tracking the location of distillers, spawning new distillers on demand, balancing load across distillers of ... that we adopt must therefore be responsive to rapid changes in offered load within a ...

Cited by 1 - Related articles - View as HTML - All 5 versions

### Models and issues in data stream systems

B Babcock, S Babu, M Datar, R Motwani, J ... - Proceedings of the ..., 2002 - portal.acm.org  
... online to enable applications such as personalization, performance monitoring, and load-balancing. ... of run-time optimization, Aurora detects resource overload and performs load shedding based on ... cases one can give confidence bounds on the degree of error introduced by ...

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## ... wide-web server with delayed resource-binding for resource-based load balancing ...

J Brendel, CJ Kring, Z Liu, CC Marino - US Patent 5,774,660, 1998 - Google Patents

... Stuart T Auvilien [57] ABSTRACT A multi-node server transmits world-wide-web pages to ... The load balancer waits to perform load balancing until after the location of the requested resource ... The connection and URL request are passed from the load balancer to a second node ...

Cited by 200 - Related articles - All 2 versions

## System and method for multi-site load-balancing of encrypted traffic

P Tenerello, CJ Ficik - US Patent App. 10/375,309, 2003 - Google Patents

... One function of the content director is to perform load balancing of resource requests across the various ... the optimal data center to service the request (whether due to proximity, load, or other ... As a result, client requests can be serviced without delay, error messages, or the need ...

All 4 versions

## [PDF] Search middleware and the simple digital library interoperability protocol

A Paepcke, R Brandriff, G Janezic, R Larson, B ... - D-Lib Magazine, 2000 - Citeseer

... A longer version of this article also discusses load balancing and exception handling ... also introduces the XML namespace Dialog, associating it with the Dialog Corporation's Web site for ... In those cases, large amounts of error-prone software are needed to marshal the necessary ...

Cited by 84 - Related articles - View as HTML - All 16 versions

## [PDF] Towards highly configurable real-time object request brokers

R Klefstad, DC Schmidt, CO'Ryan - Proceedings of the Fifth IEEE ... , 2002 - Citeseer

... multiplexing, language and OS independence, load balancing, fault-tolerance, and security ... Custom software development and evolution is labor-intensive and error-prone for complex ... more typical two-way invocation, however, the client must also load class ReplyReader1\_0 ...

Cited by 40 - Related articles - View as HTML - All 14 versions

## Cooperative caching of dynamic content on a distributed web server

V Holmedahl, B Smith, T Yang - Proceedings of the ... , 1995 - doi.ieeecomputersociety.org

... methods for improving performance file caching with proxies [6, 18, 7], and load balancing multi-node ... the actual algorithm of request execution; including all the possible error conditions would ... Web server and configuration is depicted in Figure 3, which shows that Swallow ...

Cited by 91 - Related articles - All 25 versions

## [PDF] On evaluating request-distribution schemes for saving energy in server ...

K Rajamani, C Lafoury - ... of the IEEE International Symposium on ... , 2003 - Citeseer

... content web sites, we employ Power-Aware Request Distribution (PARD) at the load-balancing front-end ... Due to a manufacturing error, our prototype server blades do not properly receive interrupts from ... and 3 servers for a 20 sec. ond startup delay, as otherwise, the load on the ...

Cited by 78 - Related articles - View as HTML - All 10 versions

## Load balancing between multiple web servers

M Vango - US Patent App. 09/835,833, 2001 - Google Patents

... overhead associated with transporting a given amount of data, although conventional request: acknowledge traffic ... front-ends 201 may be implemented or assigned to particular web sites. Client traffic is dynamically directed to available front-ends 201 to provide load balancing. ...

All 4 versions

## ... study of robust load sharing strategies for distributed heterogeneous Web server ...

M Colajanni, PS Yu - IEEE Transactions on ... , 2002 - doi.ieeecomputersociety.org

... that distributes the requests based on some optimization criterion, such as load balancing, minimization of ... request, we can control the subsequent request load to reduce the load skew ... that ... each hit request establishes a new connection between the client and the Web node. ...

Cited by 18 - Related articles - All 8 versions

## [PDF] WebWave: Globally load balanced fully distributed caching of hot published ...

A Hiddaya, S Mirdad - International Conference on Distributed ... , 1997 - church-project.org

... delegated from a node  $i$  to child  $j$  cannot exceed  $j$ . Each server participating in WebWave periodically executes the algorithm in Figure 5 attempting to **balance** its **load** with ... When the spontaneous **load** pattern fortuitously allows a GLE **load** distribution to satisfy NSS, Web- ...  
Cited by 34 - Related articles - View as HTML - BL Direct - All 9 versions

Tuning RED for **web** traffic

M Christiansen, K Jeffay, D Ott, FD ... - Proceedings of the ..., 2000 - portal.acm.org  
... best RED performance were non-obvious and arrived at only through exhaustive trial-and-error experimentation. ... data (but with the mean reduced by a factor of 10 to generate a heavier **load**). ...  
If requesting a **web** page, a separate TCP connection, as implied by the HTTP 1.0 ...  
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**[PDF] Using Design Patterns and Frameworks to Develop Object-Oriented ...**

DC Schmidt - Technology of Object-Oriented Languages and ..., 1997 - cs.wustl.edu  
... inherent complexity results from fundamental challenges, eg, Distributed systems Latency Error handling Service partitioning and load balancing Concurrent systems Race conditions ... 5:PROCESS HTTP REQUEST 31 Asynchronous Thread Pool Web Server Proactor ...  
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**[PDF] WebWave: Globally load balanced fully distributed caching of hot published ...**

A Heddaya, S Mirdad - International Conference on Distributed ..., 1997 - church-project.org  
... delegated from a node  $i$  to child  $j$  cannot exceed  $j$ . Each server participating in WebWave periodically executes the algorithm in Figure 5 attempting to balance its load with ... When the spontaneous load pattern fortuitously allows a GLE load distribution to satisfy NSS, Web- ...  
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**... study of robust load sharing strategies for distributed heterogeneous Web server ...**

M Colajanni, PS Yu - IEEE Transactions on ..., 2002 - doi.ieeecomputersociety.org  
... that distributes the requests based on some optimization criterion, such as load balancing, minimization of ... to the ADNS that excludes it from any further assignment until its load falls below ... to provide referred information for linking each request to a previous Web page request ...  
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**[PDF] The design and performance of an adaptive corba load balancing service**

O Othman, CO Ryan, DC Schmidt - IEEE Distributed Systems Online, 2000 - Citeseer  
... example, layer 5 switching [1] has become a popular technique to determine which Web server should ... a reference to a replica from the load analyzer and then forward the request to that ... The load analyzer also allows a load balancing strategy to be selected explicitly at run-time ...  
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**Summary cache: a scalable wide-area web cache sharing protocol**

U Fan, P Cao, J Almeida, AZ Broder - IEEE/ACM Transactions on ..., 2000 - portal.acm.org  
... Different re-placement algorithms [10] may give different results. Also, separate simulations have confirmed that in case of severe load imbalance, the global cache will have a better cache hit ... A third kind of error, remote stale hits, occurs in both summary cache and ICP. ...  
Cited by 1090 - Related articles - All 43 versions

**[PDF] ... of Robust Load Sharing Strategies for Distributed Heterogeneous Web ...**

W Web - IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ..., 2002 - cslib.kiev.ua  
... that distributes the requests based on some optimization criterion, such as load balancing, minimization of ... to the ADNS that excludes it from any further assignment until its load falls below ... to provide referred information for linking each request to a previous Web page request ...  
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**Cooperative caching of dynamic content on a distributed web server**

V Holmedahl, B Smith, T Yang - Proceedings of the ..., 1998 - doi.ieeecomputersociety.org  
... methods for improving performance are file caching with proxies [6, 18, 7], and load balancing multi-node ... the actual algorithm of request execution; including all the possible error conditions would ... Web server and configuration is depicted in Figure 3, which shows that Swala ...  
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**[PDF] ... and evaluation of transparent fault-tolerant web service with kernel-level ...**

N Aghdasi, Y Tamir - 11th IEEE International Conference on Computer ..., 2002 - Citeseer  
... The backup forwards a packet only after the packet passes through the kernel code where a packet may be dropped due to a detected error (eg, checksum) or heavy load. ... The "unreplicated" system is the standard system with no kernel or web server modifications. ...  
Cited by 33 - Related articles - View as HTML - All 7 versions

**Systems and methods that employ correlated synchronous-on-asynchronous ...**

KB Smith, DN LaSalle, AJ Sagar, JE ... - US Patent App. 10/..., 2003 - Google Patents

... The novel sys- tems and methods employ a dynamic **balancing** approach to parse and delineate ...  
Thus, the process engine that is expected to become the lowest **load** process engine or ...  
Subsequent results can be discarded, utilized for **error** checking, employed in place of the ...  
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**Data partitioning and load balancing in parallel disk systems**

P Scheuermann, G Weikum, P Zabback - the VLDB Journal, 1993 - Springer

... that seems more appropriate for systems with many clients (eg. **Web** servers or ... Although the problems of data partitioning and **load balancing** are orthogonal issues, they are ... parallel disk systems that performs automatic data partitioning, data allocation, and **load balancing** ...

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